PLANNING AHEAD

Notes for the Planning and Policy Community

US Army Corps of Engineers

February 2009 **Volume 12, Issue 2**

Inside This Issue

WORDS FROM THE EDITOR

This overarching theme of the month's issue of *Planning Ahead* is **collaboration** and the significant gains that can be achieved in the area of water resources planning and development through the collaborative efforts of agencies and organizations.

Ms. Ada Benavides of the USACE Headquarters begins this month's issue with an article on the Corps efforts to work with state and regional water resources agencies to assess the nation's water resources needs and to enhance Federal support to State and regional entities in order to build strong relationships and partnerships for smart water resources investments. In the words of Mr. Steven L. Stockton, Director of Civil Works for the Corps, "I believe that we can gain more and better solutions for America's cities and States if we work together to define problems and seek worthy collaborative solutions."

Mr. J. Rolf Olsen of the Institute for Water Resources and **Ms. Kathleen D. White** of the Cold Regions Research and Engineering Laboratory report on the release of a report entitled "*Climate Change and Water Resources Management: A Federal Perspective*". The report, a product of the efforts of individuals from the U.S. Geological Survey, the Corps, the Bureau of Reclamation and the National Oceanic and Atmospheric Administration, presents the best available science to help water managers prepare for and adapt to the effects of climate change on the nation's water resources.

Ms. Katisha Draughn of the Baltimore District writes about the recently convened Susquehanna River Basin Commission (SRBC) Federal Agency Coordination Summit at which representatives from 16 federal agencies met with the SRBC to review the recently completed comprehensive plan for the Susquehanna River Basin.

Ms. Jodi Staebell of the Mississippi Valley Division and **Ms. Julie Marcy and Dave Taxik** of ERDC announce the development of a webinar series on a number of Ecosystem Restoration topics, to be conducted during the period from February through July. Information on how to participate in webinar is provided.

Mr. Kevin Knight of the Institute for Water Resources announces the publication of an IWR White Paper on the expansion of the Panama Canal entitled "*The Implications of Panama Canal Expansion to U.S. Ports and Coastal Navigation Economic Analysis.*"

Other items of interest to readers of *Planning Ahead* this month include a listing of employment opportunities around the Corps, an announcement of an ERDC sponsored workshop on restoration of riparian zones for water quality and ecological functions, upcoming PROSPECT training courses, U.S. Institute for Environmental Conflict Resolution training courses, a listing of conferences of interest to water resource professionals, and recent publications, include the National Committee on Levee Safety's *Draft Recommendations for a National Levee Safety Program* report.

Thank you for your continued interest and support of *Planning Ahead.*

Ken Lichtman, Editor
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Building Strong Collaborative Relationships for a Sustainable Water Resources Future

By Ada Benavides, USACE Headquarters

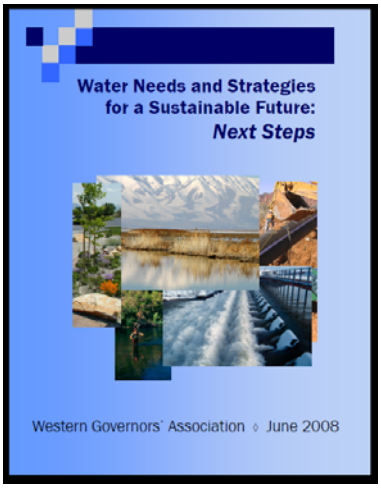
It just stands to reason - more arms on the oars improve a rowing crew's chances of getting from one shore to another. Just as collaboration can help a crew cross choppy waters, so can collaboration improve problem solving when it comes to water resources management. In this era of economic difficulty, where discretionary funding for water resources solutions is harder to come by, the more arms that can get around water resources challenges, the better. The more people contributing toward common aims, the greater the chances that the aims will be achieved.

Water resources is a shared responsibility between the States, concerned about having enough water to serve an increasing population, water crops and livestock, and keep businesses functioning; and the Federal government, dedicated to ensuring well-managed water resources infrastructure to keep ships moving, citizens and property protected from the ravages of floods, hydroelectric plants providing power, providing recreation for swimmers, boaters, and fishermen, and to protecting and restoring environmental resources for future generations.

There are many demands on the Nation's available water, a limited resource. Not enough water is always available to meet these demands, and there are often conflicting views about how water should be used. Plans and processes need to be in place to promote smart use of water to serve multiple purposes, to prioritize the use of water, and to safeguard its quality and quantity to meet diverse needs.

The U.S. Army Corps of Engineers is embarking on a project to facilitate an assessment of America's water resources needs and to promote open discussion across government levels and with stakeholders about how to meet today's and tomorrow's water needs and priorities.

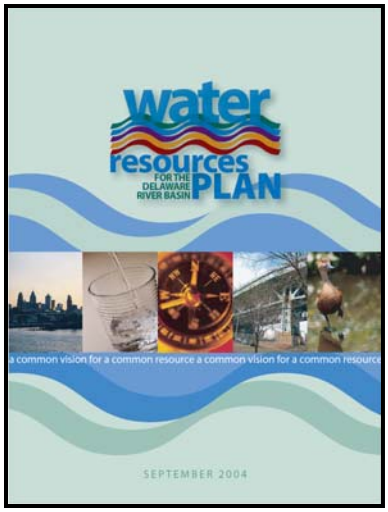
Mr. Steven L. Stockton, the Director of Civil Works for the Corps, believes that many share a vision to plan for water resources use wisely. "I believe that we can gain more and better solutions for America's cities and States if we work together to define problems and to seek worthy collaborative solutions. We have to work with others in order to leverage the talent and resources that exist. We want to be facilitators in offering a streamlined Federal toolbox of support to State and regional entities to enhance the ease and quality of how they plan and manage their water resources and their visions and goals are achieved."



The undertaking includes a study to listen to water resources officials in every State about what they deem to be their biggest challenges and most important needs. Beginning with a reading of State water plans and related documents, followed by collaborative discussions and interviews with key State officials, the Corps will summarize what each State is saying about its needs and priorities. Regional entities and other federal agencies will join the dialogue at three regional conferences to be held in the Western, Central, and Eastern regions of the U.S. under the co-sponsorship of federal agencies and non-governmental organizations such as the Western States Water Council,

Interstate Council for Water Policy, and the American Water Resources Association.

The Corps of Engineers believes the time is ripe to gain an objective assessment of States' water needs from their perspective. The Western States' governors have called for an objective water assessment, given the fact that there is not enough money to solve all water problems. Regional entities such as river basin commissions have been considering needs on a grander scale for some time from a watershed or river basin perspective.



The Delaware River Basin Commission, for example, is undertaking a study of water needs with its member States of New York, New Jersey, Pennsylvania, and Delaware. By looking beyond their own borders, these States can integrate needs and objectives to make more efficient and effective use of resources for more lasting effects.

Ms. Ada Benavides, Deputy Chief of the South Pacific Regional Integration Team at USACE Headquarters is leading the project team, with the assistance of the CDM Corporation to collect and analyze information from the States and write summary reports for presentation at regional conferences and a national conference. Analysts will summarize the results at three regional conferences to be held during the spring of 2009.

Key stakeholders will be invited to review and engage in a dialogue about the findings based on the reports and their input through the collaborative discussions. The analysts will compare trends, challenges, and needs across regions in a draft report for presentation and discussion at a national conference, from which will arise yet another summary report, between September and December 2009.

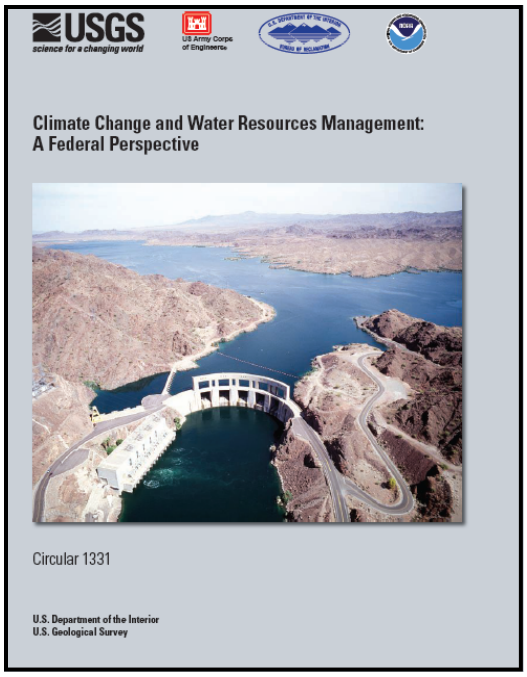
"We expect that the needs and challenges are so important that they will elevate the national will to put water needs on the radar screen of the decision makers across the country including State Governors, Congress and the administration. This time; however, the report will not be what the federal government thinks is needed but what the states actually say they want and need," said Ms. Benavides. "There is a great opportunity to unify the Federal family to enhance the Federal toolbox of support and to build strong relationships and partnerships for smart water resources investments."

"Just think," she continued, "the power of 50 is better than the power of one. The power of getting the ideas and energy of 50 states, interstate organizations, federal water management agencies, non-government organizations, and other concerned stakeholders behind water planning and management will wrap big arms around the problems and lend many more helping hands for solution finding. What an octopus of an idea!"

Ms. Benavides can be contacted by email at Ada.Benavides@usace.army.mil.

Federal Agencies Release Interagency Report on Climate Change and Water Resources

By J. Rolf Olsen, IWR and Kathleen D. White, CRREL



On February 2nd the U.S. Geological Survey (USGS), the U.S. Army Corps of Engineers, the Bureau of Reclamation, and the National Oceanic and Atmospheric Administration (NOAA) released a joint report entitled, *"Climate Change and Water Resources Management: A Federal Perspective."* The report is available online at: http://pubs.usgs.gov/circ/1331/. The paper represents a joint effort by the two principal water resources management agencies and the two principal earth science data collection agencies of the U.S. government.

The circular is technical in nature and not policy or budgetary in focus. It presents the best available science to help water managers prepare for and adapt to the effects of climate change on the nation's water resources. Dr. Rolf Olsen from the Institute for Water Resources and Dr. Kathleen White from the Engineer Research and Development Center's Cold Regions Research and Engineering Laboratory were co-authors from the Corps.

Climate change affects the fundamental drivers of the hydrologic cycle. The effects of climate change differ from region to region and combine with factors such as population growth and changing land use to impact water resources projects. A holistic approach to water resources management includes all significant drivers of change. These impacts may require changed design and operational assumptions about resource supplies, system demands or performance requirements, and operational constraints.

Current planning approaches have generally assumed that future climate conditions will be similar to the historical record - an assumption that may be suspect if climate is changing. There may be a need to supplement historical climate information. Planning assumptions might instead be related to projections of future temperature and precipitation. This can be accomplished using a multitude of approaches; a best approach has yet to be determined. The report notes that paleoclimate information and stochastic modeling can be useful for developing climate scenarios that include a wide range of potential hydroclimatic conditions. The expanded variability may allow a more robust evaluation of planning alternatives, particularly when there is concern that study outcomes and decisions may be sensitive to climate assumptions.

There will continue to be uncertainty about future climate. Adopting alternatives that perform well over a wide range of future scenarios could improve system flexibility. Practicing an adaptive management approach would allow water resource managers to make decisions sequentially over time, and may be especially useful to cope with the uncertainties of climate change. These approaches to water management would be most effective if combined with enhanced research and monitoring to improve understanding of the effects of climate change on a global and local scale.

At the media event to announce the release of the report, Mr. Steve Stockton, USACE Director of Civil Works, said "It's the role of water management agencies such as ours to consider the likelihood of, and adapt to, climate variability, especially to climate extremes such as floods and droughts." He continued, "Clearly there's a need for robust and adaptive infrastructure, and as such, we're planning and designing our water resources projects today to ensure that they are sustainable to future extreme events. We're also working to ensure our existing water resources projects are operated more sustainably, allowing greater flexibility in adapting to shifts in climatic trends."

Mr. Stockton was joined at the event announcing the release of the report by Dr Matthew Larsen, the USGS Associate Director for Water, Mr. Robert Quint, the Bureau of Reclamation's Director of Operations, and Dr. Chester Koblinsky, Director of NOAA's Climate Program Office. In a letter that accompanied the release of the report, the four leaders said "We hope to build on this foundation in the future as our agencies help the Nation resolve climate change and the myriad of other issues faced by today's water resources managers." The four agencies are continuing to work together to better integrate climate monitoring and science with the information needs of water managers and planners.

Susquehanna River Basin Commission Implements Comprehensive Plan: Federal Agencies Offer Feedback and Support During Coordination Summit

By Katisha Draughn, USACE, Baltimore District

On November 18 and 19, 2008, representatives from approximately 16 federal agencies and the Susquehanna River Basin Commission (SRBC) met at the SRBC Federal Agency Coordination Summit, held in Lancaster, Pa..

The summit brought together these federal agencies and river basin commission officials to help implement SRBC's comprehensive plan and discuss upcoming issues within the Susquehanna River Basin.

"The summit was critical because it gave the federal agencies the opportunity to come together and get a baseline understanding of what the long term vision of the comprehensive plan is and how we can make a strategic difference in the basin," said Brig. Gen. Todd T. Semonite, commander and division engineer of the U.S. Army Corps of Engineers, North Atlantic Division, and the federal commissioner for the SRBC.

The SRBC was established by the Susquehanna River Basin Compact, which was instituted on Jan. 24, 1971. The SRBC is an interstate watershed agency that manages the water resources of the tri-state Susquehanna River Basin. Its members are the federal government and the states of Maryland, Pennsylvania and New York. The SRBC coordinates its activities with the members to carry out its mission to enhance public welfare through comprehensive planning, water supply allocation and management of the water resources of the Susquehanna Basin.

BG Semonite, along with the federal team, has been actively involved in support of the SRBC and its mission. Recently, the federal agencies played a critical role in the development of the comprehensive plan.

The comprehensive plan serves as the official blueprint for the management and development of the basin's water resources. It includes the following six priority management areas — water supply, water quality, flooding, ecosystems, Chesapeake Bay and coordination, cooperation and public information. Each of these areas contain the desired results, areas of special interests, goals and needed actions.

"I think each of the priority management areas is equally important," said Amy Guise, Chief of the Project Development Branch in the Planning Division for Baltimore District and the federal staff advisor for the SRBC. "If we miss any one of them, then we would not have a comprehensive solution for the basin, we would have degradation."

BG Todd T. Semonite, Commander and Division Engineer, USACE North Atlantic Division Commander and federal commissioner for the SRBC addresses the federal agency representatives at the SRBC Federal Agency Coordination Summit on November 19 as Mr. Gary Loew, Chief, Programs Integration Division, USACE Headquarters, looks on. (Photo credit: Dwayne Lester, USACE, Baltimore District, AEC-IT office)

As the federal staff advisor, Ms. Guise is responsible for facilitating dialogue and involvement between the 16 federal agencies and the SRBC to ensure that BG Semonite, as the federal commissioner, represents the views of all the agencies, not just the U.S. Army Corps of Engineers.

"The Baltimore District is a critical member of the SRBC team since the Susquehanna River Basin falls completely within our District's civil works boundary and we maintain a comprehensive view on water resources within this basin," said Col. Peter W. Mueller, Commander of the Baltimore District. COL Mueller serves as the alternate commissioner to BG Semonite and represents the federal government at SRBC events in BG Semonite's absence. Ms. Guise, as staff advisor, accompanies BG Semonite and COL Mueller to SRBC meetings.

Mr. Gary Loew, Chief, Programs Integration Division, USACE, Headquarters, gives a federal perspective on comprehensive and collaborative planning. With Mr. Loew are BG Todd T. Semonite, North Atlantic Division Commander and federal commissioner for the SRBC and COL Peter W. Mueller, Commander and District Engineer, USACE Baltimore District and alternate commissioner at the SRBC Federal Agency Coordination Summit, Lancaster, PA. November 19, 2008.

Although Ms. Guise communicates with the federal agencies on a routine basis to discuss ongoing issues within the basin, arranging and attending this summit proved to be very beneficial for all the federal agencies.

"I think it was very successful and I received a lot of feedback from the agencies afterwards," said Ms. Guise. "They found it immensely beneficial to learn about the Commission. They thought it was great and they now have a better sense of how they can fit in."

"The compact joined together the federal government and the three states as equal partners for a period of 100 years to manage the Susquehanna basin's water resources through proper planning, development and regulation," said Paul Swartz, Executive Director of the SRBC. "As an interstate agency, the SRBC manages the basin's water resources based on watershed boundaries, not political boundaries. This gives the SRBC the unique ability to help resolve potential interstate water disputes."

The Susquehanna River Basin Compact required the Commission to establish and maintain an effective comprehensive plan. From late 2006 to mid-2008, the SRBC, the states and federal agencies worked together to modify the comprehensive plan, which had not been updated for 20 years.

The summit gave each federal representative the opportunity to not just focus on the comprehensive plan, but it also allowed them to gain a better understanding of the basin and how it became known as "The Mighty Susquehanna." "The biggest goal is to get us all together, understand what our agencies do, understand what we bring to the fight and how we can make it work together to implement the comprehensive plan," said BG Semonite.

Federal agency representatives review documents that include the priority management areas from the comprehensive plan at the Susquehanna River Basin Commission Federal Agency Coordination Summit, Lancaster, PA. November 19, 2008. (Photo Credit: Dwayne Lester, Baltimore District, ACE-IT Office)

"As a group, we were able to identify, lead and support federal agencies for the six priority management areas and to identify overlapping interests, gaps in information or regulatory programs and possible redundancies as we finalize a game plan for implementing the comprehensive plan and for assessing future progress", said Mr. Swartz.

After a fast-paced year of coordination, public involvement, meetings and strategizing for the future, the updated comprehensive plan was adopted by the SRBC on Dec. 4, 2008.

At the conclusion of the November Federal Agency Coordination summit, BG Semonite emphasized to the federal representatives to strive to understand the bigger picture, see how they fit into the bigger picture and challenge themselves to find out who can help support their own individual mission and the vision of the basin as a whole.

"I think the biggest thing to take away from the summit is a basic understanding of what the SRBC is, where the comprehensive plan is and where it can go, what each agency's part is in that plan and most importantly, as opposed to working their own lanes, where they can collaborate with others," said BG Semonite. "With all of us working together, we can really get some things to happen."

For more information on the comprehensive plan or the SRBC, go to www.srbc.net.

Did You Know…

The Susquehanna River is the largest river lying entirely within the United States that drains to the Atlantic Ocean, and it is the largest tributary to the Chesapeake Bay, supplying almost half of the freshwater inflows into the Bay. With an average daily current of 22 billion gallons of water, the river and its hundreds of tributaries drain 27,510 square miles spread over areas of New York, Pennsylvania and Maryland. However, the basin has experienced problems of water pollution and over-usage throughout the years in these three areas. The greatest sources of pollution to the river and its tributaries are from abandoned mine drainage, urban and suburban development, agricultural runoff and raw or inadequately treated sewage. As a navigable waterway, coordinating the efforts of the three states and the federal agencies has become a vital component to the restoration of the river.

Federal Agencies Participating at the Susquehanna River Basin Federal Agency Coordination Summit

U.S. Bureau of Land Management	U.S. Department of Homeland Security, Federal Emergency Management Agency	U.S. Department of the Interior, U.S. Geological Survey
U.S. Federal Energy Regulatory Commission	U.S. Department of Transportation, Federal Highway Administration	U.S. Department of the Interior, U.S. Fish and Wildlife Service
U.S. Department of Housing and Urban Development	U.S. Environmental Protection Agency	U.S. Department of the Interior, National Park Service
U.S. Army Corps of Engineers	U.S. Nuclear Regulatory Commission	U.S. Department of the Interior, Minerals Management Service
U.S. Department of Agriculture, National Resources Conservation Service	U.S. Department of Commerce, National Oceanic and Atmospheric Administration	U.S. Department of the Interior, Office of Surface Mining
U.S. Department of Agriculture, U.S. Forest Service		

Ecosystem Restoration Center of Expertise and ERDC team up to Create Ecosystem Restoration Webinar Series

By Jodi Staebell, MVD, Julie Marcy and Dave Taxik, ERDC

The Ecosystem Restoration Planning Center of Expertise (ECO-PCX) and the Engineer Research and Development Center (ERDC) have teamed up to create an ecosystem restoration webinar series. Our objective is to foster the Ecosystem Restoration Sub-CoP by enhancing communication on ecosystem restoration science, engineering, and technology, and related topics among plan formulators, biologists, engineers, and economists who work on ecosystem restoration studies.

The webinar series will include training sessions, lessons learned exchanges, R&D products and activities, and panel forums on a variety of restoration topics. Some meetings will share information on emerging policy issues. Generally, the format is a 45-minute presentation followed by a 15-minute question and answer session.

In addition to ECO-PCX and ERDC presenters, we anticipate participation from academia, other government and nongovernmental agencies, and the private sector. See the initial schedule below.

A sample webinar by Dr. Craig Fischenich (ERDC) can be viewed at: http://cw-environment.usace.army.mil/learning.cfm?CoP=Env. This session, titled "*Application of Conceptual Models to Ecosystem Restoration Project Planning*", describes conceptual models and their importance and value in project planning. Dr. Fischenich explains the strengths and weaknesses of alternative classes and forms of conceptual models and their application in ecosystem restoration. The presentation was well attended by Districts across the Corps.

Webinar access is provided via an internet browser and a toll-free, teleconference dial-in number that will be provided a week or two prior to the meeting. The first 50 attendees to call and log in may participate. Attendees are encouraged to call in as a group from a conference room if multiple individuals at one location wish to participate. Interested individuals from outside the planning community of practice are also welcome to attend.

Each webinar will be recorded, and audio-visuals will be made available on the Environmental Gateway (http://cw-environment.usace.army.mil/learning.cfm?CoP=Env) for viewing at any time.

For future presentations, see the Planning Community of Practice Sharepoint calendar at: https://kme.usace.army.mil/CoPs/CivilWorksPlanning-Policy/Lists/Calendar/calendar.aspx. Announcements with unique dial-in numbers and participant codes will also be provided via the District and Division PCoP distribution lists. To recommend topics for future meetings or to obtain further information, contact Ms. Jodi Staebell (*Jodi.K.Staebell@usace.army.mil*) or Ms. Julie Marcy (*Julie.B.Marcy@usace.army.mil*)

Please join us as we learn, share, and grow as Ecosystem Restoration professionals!

Ecosystem Restoration Webinar Schedule 2009 (Start Time: 1:00 pm Central Time)

Date	Topic	Presenter
3 February	*Louisiana Coastal Assessment Science and Technology Office*	Dr. Barb Kleiss, MVD
3 March	*TBA*	TBA
17 March	*Cooperative Ecosystem Study Units*	Dr. Al Cofrancesco, ERDC
24 March	*Quantifying Benefits of Flow Diversion to Coastal Marshes: Application to the Louisiana Coast*	Dr. Craig Fischenich, ERDC
5 May	*Model Certification*	Ms. Jodi Staebel, ECOPCX
12 May	*Metric Sets for Ecosystem Restoration Benefits Assessment*	Mr. Kyle McKay, ERDC
9 June	*Reference Systems in Environmental Benefits Analysis: Overview and Discussion*	Ms. Sarah Miller, ERDC
14 July	*Avoiding Spreadsheet Errors & Techniques for Normalizing Ecosystem Benefits*	Mr. Kyle McKay, ERDC

IWR White Paper on the Implications of the Expansion of the Panama Canal

By Kevin Knight, IWR

The Institute for Water Resources is pleased to announce the release of a white paper entitled "*The Implications of Panama Canal Expansion to U.S. Ports and Coastal Navigation Economic Analysis."*

The expansion of the Panama Canal is well underway and is expected to have major implications on shipping routes, port development, cargo distribution and a host of others issues related to the U.S. port system. One of the greatest impacts will be felt in the fast-growing container trade where the expansion will enable larger containerships to transit the canal, potentially increasing their sizes and volumes to ports along the U.S. Atlantic Coast and redirecting Asian cargo away from the congested U.S. Pacific Coast. The challenge, however, is predicting when and to what extent the expansion will impact shipping fleets and cargo within each port.

With several deep draft navigation studies underway and with still more to come, Corps planners have been concerned with uncertainties surrounding the canal and are seeking guidance in developing their assumptions, forecasts and data needs for their navigation studies.

Over the past year, IWR has been thinking about these issues and recently completed a white paper highlighting the uncertainties surrounding the proposed Panama Canal's expansion. For example, will there be enough water to support the new chambers of the canal? Will the anticipated shift in manufacturing from Northeast China to Southeast Asia make the canal less favorable from a transportation cost standpoint? Will the congestion and labor issues on the U.S. West Coast influence the cargo transiting the expanded Canal? Will recent talks to expand offshore hubs near the Canal lessen the need to deepen US ports? Perhaps the most critical question is how shipbuilders and shipping companies will respond to the larger canal. Will we experience a shift that is sudden or more gradual?

At this stage, no policy decisions have been made with respect to forecasts and assumptions. The white paper merely provides a few recommendations for follow-up studies.

If you're interested in learning more about this subject and would like to participate in future analyses or ongoing-dialogues, please contact Kevin Knight at (703) 428-7250.

Call for Papers – 2010 De Paepe-Willems Award Contest
International Navigation Association (PIANC)

February, 2009

The De Paepe-Willems Award is given by PIANC for the most outstanding technical paper prepared on an aspect of waterborne transport, with emphasis on original and practical application of technology (state-of-practice). Categories include policy, planning, management, engineering, design, environment, economics, integration with other transportation modes, technology, safety, and public involvement. The competition is open to anyone not having reached the age of forty (40) on December 31, 2009.

Ir. Gustave Willems
1901 - 1982

Ir. Robert De Paepe

The PIANC USA award winner in 2010 receives a check for $5000, an expense-paid trip to the 2010 PIANC USA Annual Meeting, and an individual membership in PIANC USA for five years. By discretion of the PIANC USA Judging Committee, second and third place awards may be granted in check amounts of $1000 and $500, respectively. The PIANC USA winner's paper is forwarded for international competition in 2010. The international winner in 2010 receives a trip to the 2010 Annual General Assembly in Liverpool, England. The International award winner receives € 5000 and a five-year individual membership.

The deadline for submitting paper abstracts for the 2010 contest is ***May 1, 2009***, with technical paper submittals required by ***August 1, 2009***. Please visit the PIANC USA website for a complete listing of available awards and scholarships (*http://www.pianc.iwr.usace.army.mil/*), and the International PIANC website for information on qualifying for and preparing DePaepe-Willems papers for competition (*http://www.pianc.org/*). For more details contact Edmond Russo, Chair, Publications Committee, PIANC USA, at Email *edmond.j.russo@usace.army.mil*, Phone (601) 634-2067.

EMPLOYMENT OPPORTUNITIES

These are but a few of the many available positions advertised on the Army's Civilian Personnel on line website: http://cpol.army.mil

(1) U.S. Army Engineer Division, Northwestern, Directorate of Programs, Planning, Environmental Resources, Fish Policy, and Support Division, Portland, OR, Environmental Protection Specialist, GS-0028-14
(2) U.S. Army Engineer District, Los Angeles, Planning Division, Plan Formulation Branch, Watershed Studies Group, Los Angeles, California, YF-2: Supv Watershed Planning Spec (0101), Supv Watershed Planning Spec (0401), Supv Watershed Planning Spec (0801), Supv Physical Scientist (1301), Supv Civil Engineer (0810)
(3) U.S. Army Engineer District, Fort Worth, Planning, Environmental & Reg Division, Planning Br, Fort Worth, TX. YA-2/YD-2: Community Planner (0020), Water Resources Planner (0101), Regional Economist (0110), Geographer (0150), Biologist (0401), Ecologist (0408), Fishery Biologist (0482), General Engineer (0801), Landscape Architect (0807), Civil Engineer (0810), Environmental Engineer (0819), Physical Scientist (1301), Hydrologist (1315)
(4) U.S. Army Engineer District, Seattle, Planning, Programs and Project Management Division, Environmental Management Branch, Seattle, WA, GS-13: Community Planner (0020), Civil Engineer (0810), Hydrologist (1315), Economist (0110), Biologist (0401), Environmental Engineer (0819), Mechanical Engineer (0830), Electrical Engineer (0850)
(5) U.S. Army Engineer District, Detroit, Planning, Programs and Project Management, Planning Office, Plan Formulation Branch, Detroit, MI, GS-12: Biologist (0401), Community Planner (0020), Economist (0110), Landscape Architect (0807), Civil Engineer (0810), Environmental Engineer (0819), Physical Scientist (1301), Hydrologist (1315)
(6) U.S. Army Engineer District, Portland, Hydroelectric Design Center, Portland, OR YD-2: General Engineer (0801), Mathematician (1520), Economist (0110)
(7) U.S. Army Engineer District, Philadelphia, Planning Division, Project Development Br, Philadelphia, PA, GS-11/12: Water Resources Planner (0101), Economist (0110), Geographer (0150), Biologist (0401), Civil Engineer (0810), Physical Scientist (1301), Hydrologist (1315), Geologist (1350)
(8) U.S. Army Engineer Division, Great Lakes and Ohio River, Programs Dir, Programs Support Division, DST (Great Lakes)/COP (Planning), Cincinnati, OH, YD-3: Supv. Economist (0110), Supv. Geographer (0150), Supv. Social Scientist (0101), Supv. Community Planner (0020), Supv. Landscape Architect (0807), Supv. Architect (0808), Supv. Civil Engineer (0810), Supv. Environmental Engineer (0819), Supv. General Biologist (0401), Supv. Physical Scientist (1301), Supv. Hydrologist (1315)
(9) U.S. Army Engineer District, Los Angeles, Planning Division, Plan Formulation Branch, Coastal Studies Group, Los Angeles, CA, GS-11/12: Social Sciences Study Manager (0101), Biological Study Manager (0401), Landscape Architect (0807), Civil Engineer (0810), Physical Scientist (1301)

(1) Vacancy Announcement Number: **WTHE09207645D**
Opening Date: **January 21, 2009** Closing Date: **February 19, 2009**
Position: **Environmental Protection Specialist, GS-0028-14**
Salary: **$99,892 - $129,865 Annual**
Place of Work: **U.S. Army Engineer Division, Northwestern, Directorate of Programs, Planning, Environmental Resources, Fish Policy, and Support Division, DUTY STATION: Portland, OR**
Position Status: **This is a Permanent position. -- Full Time**
Number of Vacancy: **1**

Duties: Serves as Leader of the Environmental Resources Community of Practice (COP) within the Planning, Environmental Resources, Fish Policy, and Support Division of the Programs Directorate. Responsible for planning, organizing, directing, coordinating, evaluating and controlling the work of professional personnel in the fields of biology, environmental protection and restoration, landscape architecture, outdoor recreation planning, and cultural resources. The Work of the team is focused on ensuring environmental protection, compliance, and restoration in conjunction with all Corps civil works activities in the Northwestern Division, geographically the largest Division in the Corps of Engineers. Also serves as the Environmental Business Line Manager (BLM), responsible for preparing Northwestern Division's annual environmental budget, in coordination with NWD's Civil Works Integration Division.

(2) Vacancy Announcement Number: **WTKC09010157R**
Opening Date: **February 09, 2009** Closing Date: **February 23, 2009**
Position: **YF-2: Supv Watershed Planning Spec (0101), Supv Watershed Planning Spec (0401), Supv Watershed Planning Spec (0801), Supv Physical Scientist (1301), Supv Civil Engineer (0810)**

Salary: **$73,554 - $116,137 Annual**
Place of Work: **US Army Engineer District, Los Angeles, Planning Division, Plan Formulation Branch, Watershed Studies Group, Los Angeles, California**
Position Status: **This is a Permanent position. -- Full Time**
Number of Vacancy: **1**

NSPS Position: This position is covered by the National Security Personnel System. For more information on NSPS, please visit the website at http://www.cpms.osd.mil/nsps/index.html.

Duties: Serve as the South Pacific Division (SPD)-wide expert in Watershed Planning and to serve as Los Angeles District's senior specialist and Supervisor in Watershed Planning. Applies a wealth of watershed planning & project development expertise and is the District Watershed Planning expert. Analyzes overall planning study results including results of engineering, economic, and environmental studies; determines available resourcing within the Division and recommends project assignment; provides authoritative advice and guidance to key staff and other officials at Federal, State, and County agency levels; reviews and has final approval authority over all Watershed planning studies; provides technical oversight; ensure compliance with established criteria, sound planning principles and standard practices; develops performance plans and rate employees; interviews candidates for subordinate positions; recommend hiring, promotion, or reassignments; takes disciplinary measures, such as warnings & reprimands.

(3) Vacancy Announcement Number: **SWHB09720134**
Opening Date: **January 23, 2009** Closing Date: **February 23, 2009**
Position: **YA-2/YD-2: Community Planner (0020), Water Resources Planner (0101), Regional Economist (0110), Geographer (0150), Biologist (0401), Ecologist (0408), Fishery Biologist (0482), General Engineer (0801), Landscape Architect (0807), Civil Engineer (0810), Environmental Engineer (0819), Physical Scientist (1301), Hydrologist (1315)**
Salary: **$48,092 - $119,710 Annual**
Place of Work: **U.S. Army Engineer District, Fort Worth, Planning, Environmental & Reg Division, Planning Br, Fort Worth, TX. DUTY STATION: Fort Worth, TX**
Position Status: **This is a Permanent position. -- Full Time**
Number of Vacancy: **01**

NSPS Position: This position is covered by the National Security Personnel System. For more information on NSPS, please visit the website at http://www.cpms.osd.mil/nsps/index.html.

Duties: You will serve as an interdisciplinary study manager, independently planning, directing, and coordinating a number of multipurpose, comprehensive, regional/statewide water resource projects such as flood damage reduction, ecosystem restoration, water supply, recreation and associated water purposes. Participate in the development of study scopes of work, budgets, and schedules, monitors progress, and ensures studies completed as planned. Prepare project management plans, reconnaissance reports, and feasibility reports. Use automated information systems including financial management and network analysis.

About the Position: **A recruitment or relocation incentive may be paid if eligible**

(4) Vacancy Announcement Number: **WTHF09200367**
Opening Date: **February 03, 2009** Closing Date: **February 23, 2009**
Position: **GS-13: Community Planner (0020), Civil Engineer (0810), Hydrologist (1315), Economist (0110), Biologist (0401), Environmental Engineer (0819), Mechanical Engineer (0830), Electrical Engineer (0850)**
Salary: **$85,487 - $111,134 Annual**
Place of Work: **U.S. Army Engineer District, Seattle, Planning, Programs and Project Management Division, Environmental Management Branch, DUTY STATION: Seattle, WA**
Position Status: **This is a Permanent position. -- Full Time**
Number of Vacancy: **1**

Duties: Serves as a Program Manager, Project Manager, and Technical Manager for assigned programs and projects. As Program Manager (PGM) and Project Manager (PJM) serves under the Chief, Environmental Management Branch, Programs and Project Management Division and under the Chief, Design Branch, Engineering/Construction Division while serving as a Technical Manager. Serves as primary point of contact with major program activity headquarters office and is responsible for monitoring overall program execution. Keeps customers apprised of program execution status through periodic reviews.

Attends customer staff meetings when appropriate and periodically visits with customers and their staff to determine how well the District is meeting their requirements. Responsible for managing and directing the efficient and effective accomplishment of the investigating, planning, scope development, design, and construction of major projects for assigned program areas through a matrix management process.

(5) Vacancy Announcement Number: **SWKD09263668**
Opening Date: **February 09, 2009** Closing Date: **February 23, 2009**
Position: **GS-12: Biologist (0401), Community Planner (0020), Economist (0110), Landscape Architect (0807), Civil Engineer (0810), Environmental Engineer (0819), Physical Scientist (1301), Hydrologist (1315)**
Salary: **$73,374 - $95,381 Annual**
Place of Work: **U.S. Army Engineer District, Detroit, Planning, Programs and Project Management, Planning Office, Plan Formulation Branch, DUTY STATION: Detroit, MI**
Position Status: **This is a Permanent position. -- Full Time**
Number of Vacancy: **1**

Duties: Conducts research, prepares technical services reports, develops non-structural flood plain management and damage prevention plans, and coordinates all phases of activities with appropriate District, State, Federal, and local interests. Develops plans and recommends technical studies, pertaining to assigned River Basins. Acquires a full knowledge of the Basins under study, so that the Plan prepared is sound, realistic, and socially and politically acceptable. Develops methods of operation and conducts broad-based urban planning studies with responsibilities in the following areas; urban flood control and flood plain management, municipal and industrial water supply, wastewater management, bank and channel stabilization, lake and estuarine restoration and protection, recreation management and development at civil works projects located in close proximity to urban areas.

About the Position: Serves as Principal Planner with responsibility for carrying out complete studies and reports leading to plans for the optimal utilization of water and related land resources of river basins or urban area, to meet all foreseeable short and long term needs. Functions as specialist in Comprehensive Flood Damage Prevention Planning.

(6) Vacancy Announcement Number: **WTHE09201906**
Opening Date: **January 22, 2009** Closing Date: **February 26, 2009**
Position: **YD-2: General Engineer (0801), Mathematician (1520), Economist (0110)**
Salary: **$67,215 - $92,409 Annual**
Place of Work: **U.S. Army Engineer District, Portland, Hydroelectric Design Center, Portland, OR**
Position Status: **This is a Permanent position. -- Full Time**
Number of Vacancy: **1**

Duties: Using mathematical models performs complex studies designed to assess the impact of additional power generating plants on existing hydroelectric power generation systems. These studies are highly complex because of the capabilities and operating peculiarities of different power options (hydro, nuclear, thermal) and their interaction within the system. Incumbent is responsible to coordinate within the agency and with other agencies or manufacturers to gather information. Compiles data into reports. Participates with other Corps of Engineers districts in feasibility and economic studies on the benefits of rehabilitating existing power houses. These studies include the analysis of how many and in what order to rehabilitate the turbines and generators. Performs project studies to determine potential power production and economics of developing hydropower projects proposed by Corps Districts nationwide.

About the Position: The Hydropower Analysis Center is attached to Portland District and performs analyses and studies, maintains expertise, and supports program development for the U.S. Army Corps of Engineers hydropower program. The Corps currently operates 75 hydropower plants nationwide, which generate nearly 100 billion kilowatt-hours of power per year, enough power to serve more than 10 million households. The Corps largest hydropower plants are located in the Pacific Northwest, but there also are important projects in Midwest, South Central and South Atlantic states. The U.S. Army Corps of Engineers is the largest operator of hydroelectric power plants in the United States and one of the largest in the world.

(7) Vacancy Announcement Number: **NEGA08904773R**
Opening Date: **January 27, 2009** Closing Date: **February 27, 2009**
Position: **GS-11/12: Water Resources Planner (0101), Economist (0110), Geographer (0150), Biologist (0401), Civil Engineer (0810), Physical Scientist (1301), Hydrologist (1315), Geologist (1350)**

Salary: **$60,072 - $93,598 Annual**
Place of Work: **U.S. Army Engineer District, Philadelphia, Planning Division, Project Development Br, DUTY LOCATION: Philadelphia, PA**
Position Status: **This is a Permanent position. -- Full Time**
Number of Vacancy: **2**

Duties: In this position you will be responsible for assisting in the conduct and day-to-day study management of planning investigations and studies which encompass varied phases of project work. These are located in a wide geographical area which includes portions of New York, Pennsylvania, Maryland, New Jersey and Delaware. You will prepare reports and documents often justifying approval of projects; and reformulating or reaffirming authorized projects. Coordinate with all District elements in preparing a Project Management Plan (PMP) to define the scope of effort for study, and work with other professional and technical personnel of supporting elements to define assignment of responsibility, results to be achieved and amount of funds needed. As well as prepares basic scopes of work and government cost estimates for contracting services.

(8) Vacancy Announcement Number: **SWGJ09176025**
Opening Date: **February 12, 2009** Closing Date: **March 05, 2009**
Position: **YD-3: Supv. Economist (0110), Supv. Geographer (0150), Supv. Social Scientist (0101), Supv. Community Planner (0020), Supv. Landscape Architect (0807), Supv. Architect (0808), Supv. Civil Engineer (0810), Supv. Environmental Engineer (0819), Supv. General Biologist (0401), Supv. Physical Scientist (1301), Supv. Hydrologist (1315)**
Salary: **$92,683 - $158,477 Annual**
Place of Work: **U.S. Army Engineer Division, Great Lakes and Ohio River, Programs Dir, Programs Support Division, DST (Great Lakes)/COP (Planning), Cincinnati, OH**

Position Status: **This is a Permanent position. -- Full Time**
Number of Vacancy: **1**

Duties: Serves as Chief, Planning and Policy, the leader of the Planning and Policy Community of Practice (CoP) for LRD, the national leader of the CoP for Inland Navigation, the Leader of the USACE Inland Navigation Planning Center of Expertise, and the supervisor of a District Support Team (DST), within the Programs Directorate of LRD. Is the senior technical advisor/consultant for LRD's regional water resources planning activities. Insures the effective utilization of water and related land resources to meet existing and long-term needs. Responsible to the Programs Director for overall program formulation, management, programming, administration, and evaluation of regional water resources development activities performed within the LRD office and for providing staff supervision and assistance, coordination, and review regarding the water resources development planning accomplished in subordinate districts. Represents the Division Commander at conferences and hearings.

(9) Vacancy Announcement Number: **WTKC09830852R**
Opening Date: **February 16, 2009** Closing Date: **March 02, 2009**
Position: **GS-11/12: Social Sciences Study Manager (0101), Biological Study Manager (0401), Landscape Architect (0807), Civil Engineer (0810), Physical Scientist (1301)**
Salary: **$62,678 - $97,658 Annual**
Place of Work: **US Army Engineer District, Los Angeles Planning Division, Plan Formulation Branch, Coastal Studies Group, Los Angeles, CA**
Position Status: **This is a Permanent position. -- Full Time**
Number of Vacancy: **1**

Duties: Incumbent serves as a planning study manager for one or more major coastal resources projects within the District; directs, manages and conducts water and related land resources studies; determines data to be collected, field investigation scopes, estimated time required to complete the investigations, study cost, engineering, environmental, social and cultural scopes, public involvement; leads a team including representatives of a cost sharing local sponsor to formulate, develop and analyze major civil works water and related land resource projects; directs refinement of alternatives using input from team, local sponsor, Federal, State and local agencies, environmental and development interest groups; organizes, participates in and/or conducts meetings, conferences, and workshops with local and agency jurisdictions, federal, state, county, special interest to discuss project formulation agreements, operating methods, benefits and cost divisions, problem resolutions, status reports and to solicit cooperation.

Announcement of USACE Water Operations Technical Support Program Workshop on Restoration of Riparian Zones for Water Quality and Ecological Functions

Las Vegas, NV 21-23 April 2009

The U.S. Army Engineer Research and Development Center (ERDC), Environmental Laboratory, in collaboration with the Southern Nevada Water Authority, is pleased to announce that a free workshop on restoration and management of streams and riparian areas for water quality and ecological functions is now scheduled for 21-23 April, 2009 in Las Vegas, NV.

This workshop will include a variety of technical presentations by ERDC engineers and scientists on stream/riparian restoration and management, centering on the prevention and control of non-point source pollution using riparian buffer strips along streams, rivers, lakes, and wetlands. We will also address methods and techniques that provide a broad range of physical and ecological functions, including streambank protection and bioengineering, and habitat and movement corridors.

Many stream and riparian restoration efforts have been recently completed by the instructors, with numerous tools and techniques applied to satisfy project goals. This workshop will also provide an in-depth analysis and presentation of the problems and potential solutions available for the assessment, design, and implementation of riparian buffer strips.

Attendance priority will be given to USACE employees first. Those from other Federal and state agencies, and well as our non-federal partners are also encouraged to attend on a space-available basis. Details on the specific location of the workshop within Las Vegas are still in the works and will be available soon.

If you have any questions please contact the course coordinator, Dr. Richard Fischer at Richard.A.Fischer@usace.army.mil. This workshop is made possible by funds from the USACE Water Operations Technical Support Program (http://el.erdc.usace.army.mil/wots).

U.S. Institute for Environmental Conflict Resolution Announces the Availability of Upcoming Training Courses

The U.S. Institute for Environmental Conflict Resolution is pleased to announce the upcoming schedule of courses.

Introduction to Managing Environmental Conflict
Washington DC - Mar 10-11, 2009
Atlanta, GA - May 12-13, 2009

Collaborative Competencies
Washington DC - February 24-26, 2009

Interest-Based Negotiation of Environmental Issues
Portland, OR - April 22-23, 2009

Advanced Multi-Party Negotiation of Environmental Disputes
Washington DC - February 10-12, 2009
Washington DC - April 7-9, 2009
The Institute for Environmental Conflict Resolution can also customize training courses to meet specific needs.

For more information about the Institute or to find out more about the training courses, including course description and cost, please visit the Institute's website at http://www.ecr.gov or contact:

Diana Wilkinson, PhD
Training Coordinator
U.S. Institute for Environmental Conflict Resolution
130 South Scott Avenue, Tucson, Arizona 85701
Telephone: 520.901.8578
Fax: 520.901.8579
Email: wilkinson@ecr.gov

Upcoming USACE sponsored PROSPECT training courses of interest to the members of the Planning CoP include:

PCC4 Economic Analysis Control Number 270

March 23— 27, 2009 Springfield, VA

This course is designed to provide an overview of the requirements and procedures for conducting economic analysis of Corps of Engineers water resources planning projects. Some form of economic analysis, including benefit/cost analysis, cost effectiveness analysis and or economic impact analysis is required of all Corps projects, whether they be for flood control, navigation, dredging, water supply, environmental mitigation and restoration or other project purpose. The course is designed to help students better understand the Corps planning process and where they, as economist, fit into that planning process. The course will also provide information on how to think about and analyze new problems and situations.

This course includes discussion on (a) the economist's role in the Corps of Engineers (Who is your audience, your customer? What are your products?); (b) introduction on principles and guidelines -- how the economist's job is influenced by P&G; (c) how to think as a Corps economist in National Economic Development (NED) terms (including new technologies such as risk and uncertainty); (d) evaluation by project purpose using the NED manuals (the incorporation of R&U into evaluation by project purpose); (e) other evaluation techniques (cost effectiveness, incremental cost analysis, economic impact analysis); (f) the changing role of economic analysis: Environmental Restoration, Rehabilitation, Watershed Planning, Section 216; (g) expected problem areas and how to think about them -- emphasis will be on with/without project condition, NED vs. Regional, Economics vs. Cost Sharing; and (h) how to plan your work with emphasis on Initial Project Management Plan (IPMP). This course is designed primarily for NEW Corps Economists and/or those personnel requiring a basic understanding of what economists do in conducting economic analysis of water resources projects, particularly project managers. Priority placement will be given to CW planners with less than 3 years of planning experience at the GS7-11 grade level. It is highly recommended that students have taken the CW Orientation Course and the Planning Principles & Procedures Course before taking this course.

Nonstructural Measures for Flood Risk Control Number: 345

March 30 — April 3, 2009 Davis, CA

This course will provide participants with the overall ability to realize opportunities with nonstructural measures, to formulate nonstructural measures, and to implement nonstructural measures.

This course will touch on the Corps flood risk management mission and the relationship of these missions to the Actions for Change, the Civil Works Strategic Plan, the Environmental Operating Principles, and watershed/systems planning, in order for the participant to fully understand the significant role of nonstructural measures. This course will make the student very familiar with the basic nonstructural measures such as elevation, dry flood proofing, wet flood proofing, small berms, levees and walls, relocation, acquisition, and flood warning. The importance and relevance of the National Flood Insurance Program to flood risk management will be explained. Laws, policies, statutes, executive orders, etc., will be covered that relate directly to nonstructural measure formulation and implementation. The host of opportunities that exist with implementing nonstructural measures will be explored in terms of accomplishing long term flood risk management.

The student will be shown how to conduct nonstructural benefit analysis and how to formulate nonstructural alternatives. A field trip will be included to see nonstructural measures that have been implemented. The course offers opportunities to professional staff in such areas as flood plain management, hydraulics and hydrology, and civil works planning to become knowledgeable in this area. Its focus is on realizing the need for, and the opportunities with, nonstructural measures as well as the methodologies and procedures for performing reconnaissance and feasibility phase investigations for plan formulation, evaluation and implementation of nonstructural measures.

To attend these courses or to receive additional information about other PROSPECT training courses, please contact the USACE Learning Center at http://pdsc.usace.army.mil.

CONFERENCES

The following is a list of conferences, workshops, and symposia that may be of interest to members of the Planning Community of Practice, as well as other practitioners in field of water resources. Those conferences, workshops and symposia in which the U.S. Army Corps of Engineers has been involved in the organization, sponsorship, or where members of the Corps have been identified as speakers or presenters, are identified in *italics.*

22nd Annual National Conference on Beach Preservation Technology
February 18-20, 2009 St. Petersburg, FL
Additional information: http://www.fsbpa.com

Coastal Geotools 2009
March 2-5, 2009 Myrtle Beach, SC
Additional information: http://www.csc.noaa.gov/geotools/index.html

5th World Water Forum "Bridging Divides for Water"
March 16-22, 2009 Istanbul, Turkey
Additional information: http://www.worldwaterforum5.org

National Military Fish and Wildlife Association Annual Meeting
March 17-21, 2009 Washington, DC
Additional information: http://www.nmfwa.org/future.cfm

2009 National Hurricane Conference
April 6-10, 2009 Austin, TX
Additional information: http://www.hurricanemeeting.com

16th International Conference on Aquatic Invasive Species
April 19—23, 2009 Montreal, CAN
Additional information: http://www.icais.org/

American Water Resources Association, 2009 Spring Specialty Conference, "Managing Water Resources and Development in a Changing Climate"
May 4-6, 2009 Anchorage, AK
Additional information: http://www.awra.org/meetings/Anchorage2009/index.html

World Environmental and Water Resources Congress
May 17—21, 2009 Kansas City, KS
Additional information: http://content.asce.org/conferences/ewri2009/program.html

National Hydrologic Warning Council Training Conference and Exposition
May 18—21, 2009 Vail, CO
Additional information: http://www.hydrologicwarning.org/content.aspx?page_id=22&club_id=617218&module_id=48494

International Marine Conservation Congress
May 19-24, 2009 Washington, DC
Additional information: http://www2.cedarcrest.edu/imcc/index.html

Association of State Floodplain Managers Annual National Conference
June 7-12, 2009 Orlando, FL
Additional information: http://www.floods.org/Conferences%2C%20Calendar/Orlando.asp

Society of Wetlands Scientists Annual Meeting
June 22-26, 2009 Madison, WI
Additional information: http://www.sws.org/2009_meeting/index.mgi

2009 AWRA Summer Specialty Conference "Adaptive Management of Water Resources II"
June 29—July 1, 2009 Snowbird, UT
Additional information: http://www.awra.org/meetings/SnowBird2009/index.html

Coastal Zone 09
July 19-23, 2009 Boston, MA
Additional information: http://www.csc.noaa.gov/cz

3rd National Conference on Ecosystem Restoration
July 20-24, 2009 Los Angeles, CA
Additional information: http://conference.ifas.ufl.edu/ncer2009/

U.S. Army Corps of Engineers Infrastructure Systems Conference
July 20—24, 2009 Cleveland, OH
Additional information: http://www.usaceiscconf.org/2009/

Ecological Society of America Annual Conference
August 2—7, 2009 Albuquerque, NM
Additional information: http://www.esa.org/albuquerque/

Ports 2010
April 25-28, 2010 Jacksonville, FL
Additional information: http://www.content.asce.org/conferences/ports2010

PUBLICATIONS

The following is a list of recently published reports, studies, or articles prepared by the Corps of Engineers, other Federal agencies, or other research organizations:

"Draft Recommendations for a National Levee Safety Program: A Report to Congress from the National Committee on Levee Safety" dated January 15, 2009, Available at http://www.iwr.usace.army.mil/ncls/docs/NCLS-Recommendation-Report_012009_DRAFT.pdf

"Technical Guideline for Environmental Dredging of Contaminated Sediments" by Michael R. Palermo, Paul R. Schroeder, Trudy J. Estes, and Norman R. Francingues, U.S. Army Corps of Engineers Engineer Research and Development Center, Environmental Laboratory, ERDC/EL TR-08-29, September 2008, Available at: http://libweb.wes.army.mil/uhtbin/hyperion/EL-TR-08-29.pdf

"Coastal Change Along the Shore of Northeastern South Carolina: The South Carolina Coastal Erosion Study", W.A. Barnhardt, editor, U.S. Geological Survey Open File Report 2008-1206, Available at: http://pubs.usgs.gov/of/2008/1206/index.html

"U.S. Climate Change Science Program, Synthesis and Assessment Product 4.1—Coastal Sensitivity to Sea Level Rise: A Focus on the Mid-Atlantic Region" Final Report, January 15, 2009, Available at: http://www.epa.gov/climatechange/effects/coastal/sap4-1.html

"Flowing Smokestacks—A Call for Action to Clean Up Marine Shipping Pollution", by Janea Scott and Hilary Sinnamon, Environmental Defense Fund, Available at http://www.edf.org/documents/8619_FloatingSmokestacks_report.pdf

HOW TO SUBMIT AN ARTICLE TO *PLANNING AHEAD*

Planning Ahead is designed to foster communication amongst the members of the Planning community of practice within the Corps, with those other members of the Corps family with which planners interact on a daily basis, and with members of the general public outside of the Corps. It is our goal that future editions of the newsletter will include information and perspectives of those members of the planning community on the front lines of the Corps' planning efforts, the District and Division offices. We hope that this newsletter becomes a forum to share your experiences to help the entire planning community learn from one another. We welcome your thoughts, comments, questions, suggestions, success stories, and lessons learned, so that we can share them with the broader community. Submissions should be moderate in length (4-5 paragraphs), except in cases where the article is compelling and circumstances warrant a lengthier treatment of the subject. The article should be prepared as a MS Word document. Pictures accompanying submitted articles are welcome. Pictures must be in JPEG format. Please send articles to Mr. Kenneth E. Lichtman, at Kenneth.e.lichtman@usace.army.mil

The deadline for material to be published in the next issue of *Planning Ahead* is
Wednesday, March 4, 2009

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